Alpha Resources Inc.

Safety Data Sheet (SDS)

Revision Date: April 29, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Copper Sulfate (hydrated)

AEB1022

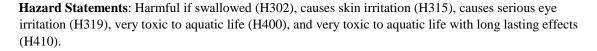
This product is intended for laboratory use.

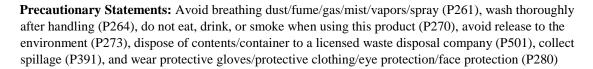
Alpha Resources Inc. 3090 Johnson Rd. Stevensville, MI 49127 (269)465-5559

CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word WARNING

SECTION 2— HAZARDS IDENTIFICATION

Hazard Classification: Acute toxicity, oral (Category 4), skin corrosion/irritation (Category 2), serious eye damage/ eye irritation (Category 2A), hazardous to the aquatic environment, acute toxicity (Category 1), and hazardous to the aquatic environment, chronic toxicity (Category 1).





First Aid Statements: IF SWALLOWED: Calla POISON CENTER or doctor/physician if you feel unwell (P301+P312), IF IN EYES: rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, continue rinsing (P305+P351+P338), IF ON SKIN: wash with plenty of soap and water (P302+P352), specific treatment, see on this label (P321), if skin irritation occurs: get medical advice/attention (P332+P313), and if eye irritation persists: get medical advice/attention (P337+P313).



SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS

Component	CAS#	Common %
Copper Sulfate (Hydrated)	7758-98-7	90-100

SECTION 4— FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). If unconscious, check for breathing and apply artificial respiration if necessary. Seek medical attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

If eye irritation persists: Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water (P302+P352). Take off contaminated clothing.

If swallowed: Never give anything by mouth to an unconscious person. If swallowed, rinse mouth with water if person is conscious. DON'T induce vomiting. Seek medical attention.

Important symptoms: Eye irritation, skin irritation, and harmful if inhaled or swallowed.

<u>SECTION 5 — FIRE FIGHTING MEASURES</u>

Extinguishing Media: Dry chemical, water spray, alcohol-resistant foam, or carbon dioxide. This media would be for surrounding fires because this material will not burn.

Fire Fighting Instructions: Firefighters should wear positive pressure self-contained apparatus if necessary. Full fire retardant clothing might be necessary depending on size of fire. Avoid this product entering drains or water ways.

<u>SECTION 6 — ACCIDENTAL RELEASE MEASURES</u>

Person Precautions: Adequate ventilation is necessary to prevent over-exposure. Avoid contact with skin and eyes. Avoid production of dust if possible. If dust is formed, don't breathe in and if necessary use a respirator to protect from exposure. Don't breathe in gas/fumes/vapor/spray. Move personnel away from area if possible to a safer zone.

Small or large spill: Pick up large pieces and place into sealable container. Clean in a way that keeps dust creation to a minimum. Clean area with wet cloth and dispose properly.

Environmental Precautions: Avoid letting this material enter water ways or drains.

SECTION 7 — HANDLING AND STORAGE

Handling: Exhaust should be in place when working with this material. If not possible an approved respirator should be worn. Wash hands after touching material. Don't breathe dust or vapor. Wear suitable person protective equipment.

Store: In a cool dry place keep sealed.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Component	CAS#	Value	Limit	Basis
Copper Sulfate	7758-98-7	TWA	1mg/m^3	USA. NIOSH Recommended Exposure limits
		TWA	1mg/m^3	USA. NIOSH Recommended Exposure limits

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). An approved NIOSH respirator must be work if exposure limits are excessive.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Blue solid Odorless Relative Density: 2.284 Soluble: 0.317 g/cm^3 pH: N/A Melting Point: N/A

SECTION 10 — STABILITY AND REACTIVITY

Stability: Stable if stored or used at proper temperatures should never become unstable.

Incompatible materials: N/A

Conditions to Avoid: N/A

Hazardous decomposition product: Not determined

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Effects: Harmful if swallowed.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Toxicological Data: LD50 Oral Rat: 482mg/kg LD50 Dermal Rat: 2000mg/kg

LD50 Intraperitoneal Rat: 20mg/kg LD50 Subcutaneous Rat: 43mg/kg

LD50 Intravenous Rat: 48.9mg/kg

Germ cell mutagenicity: Rat –Liver-DNA damage Mouse-DNA damage

Carcinogenicity: Chicken-parenteral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Endocrine: tumors.

No component of this product present at levels greater than or equal to 0.1% is identified as

possible/potential/anticipated carcinogen by IARC/ACGIH/NTP/OSHA.

SECTION 12 — ECOLOGICAL INFORMATION

Data: Toxicity to fish mortality LC50-other fish: 1-1.25 mg/l (96hr)

Toxicity to Daphnia and other aquatic invertebrates Immobilization EC50- Daphnia magna (water flea): 0.024mg/l (48hr)

Persistence and degradability: No data Bioaccumulative potential: No data

Mobility in soil: No data

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste disposal should be done in compliance with existing federal, state and local environmental regulations.

SECTION 14 — TRANSPORT INFORMATION

DOT reportable quantity: 10lbs.

UN # UN3077 Transport Class: 9 Packing Group: III

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Copper Sulfate)

Environmental hazards: yes Marine pollutant: yes IMDG EmS code: F-A S-F

IATA: Packing instruction (cargo): 956 (passenger): 956 Max. quantity: 400kg

<u>SECTION 15 — REGULATORY INFORMATION</u>

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of title III.

SARA 313 Components: Copper Sulfate is subject to reporting levels within this specification.

SARA 311/312 Hazards: Acute health hazard and chronic health hazard.

Massachusetts RTK Components: Copper Sulfate CAS#7758-98-7 Pennsylvania RTK Components: Copper Sulfate CAS#7758-98-7 New Jersey RTK Components: Copper Sulfate CAS#7758-98-7

California Prop 65: No chemicals in this material known to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 — OTHER INFORMATION

The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.